

Oracle® Retail Place
Installation Guide
Release 12.2

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Preface

This guide enables you to install the Oracle Retail Place application, along with the server-side components required for the application.

Audience

This guide is intended for system administrators and assumes that you are familiar with the following:

- Installing and configuring application server software
- Installing and configuring relational database management systems
- Installing and configuring distributed client/server applications on a UNIX-based local area network

Related Documents

For more information about using the Place application, the following documents are available in the Oracle Retail Place Release 12.2 documentation set:

- *Oracle Retail Place Administration Guide*
- *Oracle Retail Place Configuration Guide*
- *Oracle Retail Place Operations Guide*
- *Oracle Retail Place User Guide*

Supplemental Documentation on MetaLink

The following technical white paper is available on the MetaLink Web site:

MetaLink Note 737759.1: Oracle Retail Password Security Management Guide

Oracle Retail Plan and Place applications now include a Password Security Management module that helps you generate and store encrypted passwords used in the application. This enables you to meet the password encryption security policies or laws mandated for your business.

The white paper introduces you to the Password Security Management module and the methodology adopted to encrypt the passwords. It also includes information that will help you perform administrative or recovery tasks efficiently.

Customer Support

- <https://metalink.oracle.com>

When contacting Customer Support, please provide:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to recreate
- Exact error message received
- Screen shots of each step you take

Review Patch Documentation

If you are installing the application for the first time, you install either a base release (for example, 12.0) or a later patch release (for example, 12.2). If you are installing a software version other than the base release, be sure to read the documentation for each patch release (since the base release) before you begin installation. Patch documentation can contain critical information related to the base release and code changes that have been made since the base release.

Oracle Retail Documentation on the Oracle Technology Network

In addition to being packaged with each product release (on the base or patch level), all Oracle Retail documentation is available on the following Web site (with the exception of the Data Model which is only available with the release packaged code):

http://www.oracle.com/technology/documentation/oracle_retail.html

Documentation should be available on this Web site within a month after a product release. Note that documentation is always available with the packaged code on the release date.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Overview

This chapter provides an overview of Oracle Retail Place and a roadmap for implementing the application. It contains the following sections:

- [Overview of Place](#)
- [Overview of Oracle Configuration Manager](#)
- [Roadmap for Implementing Place](#)

Overview of Place

Oracle® Retail Place enables retailers to generate and publish recommended allocations based on optimal size profiles, pack configurations, available warehouse inventory or advance shipping notices (ASNs), and forecasted sales. It also enables the retailers to integrate the other systems to capture the daily warehouse inventory, the current ASNs, and generate the recommended allocations to the stores.

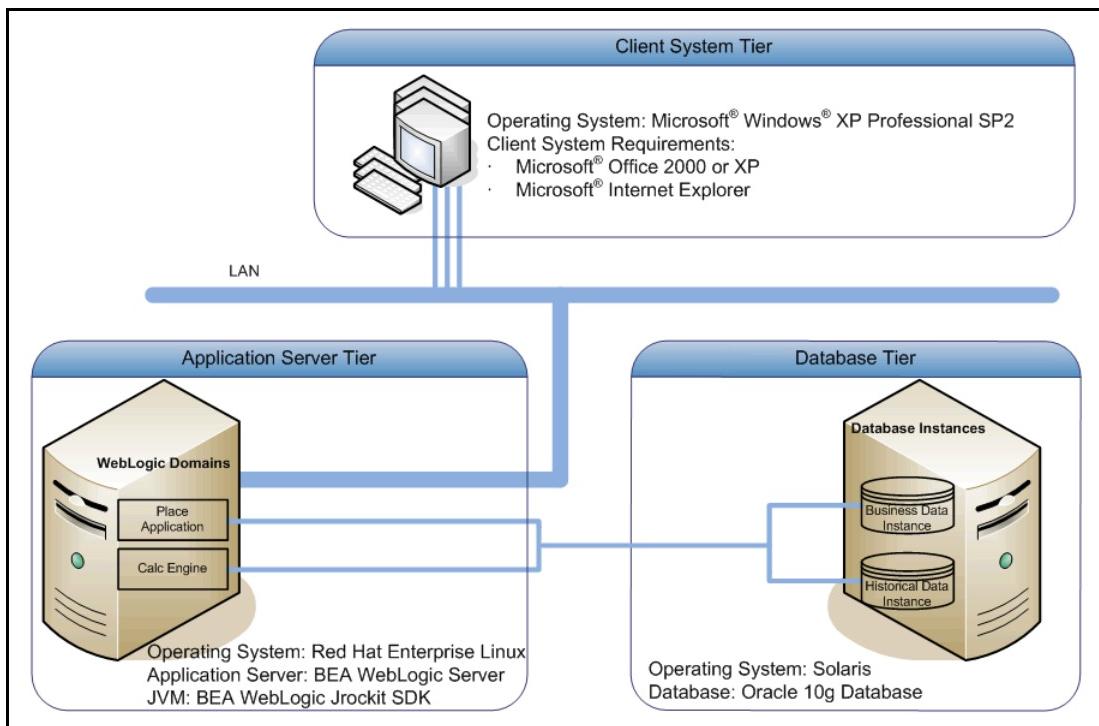
Place is a Web-based allocation optimization system that helps retailers optimize the distribution of the merchandise to the stores. It helps the retailers to allocate the right merchandise at the right time to the right stores.

Place Enterprise Components

The Place application is a distributed application, using an application server as the platform for the services, a database, and several other software components. It contains the following components:

- [Client System Tier](#)
- [Application Server Tier](#)
- [Database Server Tier](#)

The following figure displays a typical configuration:

Figure 1–1 Typical Configuration for Place

Client System Tier

The Client System tier contains the systems that connect to the Place application using a Web browser. It includes systems with the following components:

- Microsoft Windows
- Microsoft Office
- Microsoft Internet Explorer 7.0, with ActiveX control

Application Server Tier

The Application Server tier contains the application server domains, clusters, and managed servers set up as a platform used by the application and calculation engine. This tier includes the following components hosted on the application server (BEA WebLogic Server):

- Application – The Place application resides on a domain configured on this application server. You can install and run multiple instances of the application server or multiple application server machines, based on your business needs.
- Calculation Engine – It also installs on a specific domain configured on the application server. To improve performance, you can install and run multiple engines, and move them to any other production server within your environment as needed.

Note: Oracle recommends that you set up separate hosts for the application and the Calculation Engine.

Database Server Tier

The Database Server tier contains the systems configured with the database management systems (Oracle 10g Database) along with the necessary database software.

The following essential schemas are created during the Place installation:

- AUDIT schema – contains information that helps you better track objects, events and critical data changes.
- PLACE schema – contains data specific to the application.
- OAK schema – contains the business data essential for the application, such as merchandise hierarchy, product information, inventory positions, store information, and so on.
- ELM schema – contains the historical data that includes per store and per item sales activities stored over a time period (daily, weekly, and so on.)
- PINE schema – contains the demand parameters data (result of the curve fitting algorithms) to drive the forecast demand models, including item seasonalities, price elasticities, and curve fitting parameters.

Note: Oracle recommends that you set up separate instances for the business database (AUDIT, PLACE, OAK, and PINE schema included in a single BASE schema) and historical database (ELM schema).

Roadmap for Implementing Place

This guide explains how you can install and set up the Place application, along with the required and optional software.

The instructions in this guide assume knowledge of application servers, databases, and application installation, and are intended for system administrators and experienced IT personnel. Before carrying out any of these activities, ensure that you understand UNIX commands (including shell configuration and scripting), directory operations, and symlinks.

In order to implement Place for production, you must perform the following tasks in a sequence:

Table 1–1 Roadmap for Implementing Place

Task	Description
<i>Pre-installation Tasks</i>	
1.	Plan your environment, based on your business needs. For more information on the planning process and the supported configurations, see Chapter 2, "Planning Your Installation" .
2.	Set up your application database. For more information, see Chapter 3, "Setting Up the Database" .
3.	Set up your application server. For more information, see Chapter 4, "Setting Up Your Application Server" .
<i>Installation Task</i>	
4.	Access the Place installation software, set up the <code>install.properties</code> file, and run the Oracle installer. For more information, see Chapter 5, "Installing Place" . Additionally, you can also install the Place application to work along with an existing installation of Plan. For more information, see Chapter 6, "Installing Place Over Plan" .
<i>Post-installation Tasks</i>	
5.	Configure your business rules and user accounts. For more information, see the <i>Place Configuration Guide</i> .
6.	Modify the Place user interface to accommodate your business needs, as described in the <i>Place Configuration Guide</i> . Concurrent with this activity, complete the remaining steps in this roadmap. You can continue refining the user interface iteratively, as needed (optional).
7.	Set up user accounts and introduce the end users to the application.
8.	Perform and schedule the necessary data loads, as described in the <i>Place Operations Guide</i> .

Planning Your Installation

Before installing the Place application, you must first determine the performance and availability goals for your business, and then plan the hardware, network, and storage requirements accordingly. This chapter provides some basic considerations for the implementation. It also includes the list of hardware and software requirements.

This chapter includes the following sections:

- [Overview of the Planning Process](#)
- [Supported Configurations](#)

Overview of the Planning Process

Planning your implementation prior to an installation also gives you a better understanding of the environment, and enables you to adapt faster to any future changes in the environment setup.

This section contains the following topics:

- [Planning Your Environment](#)
- [Planning for Optimal Place Performance](#)

Planning Your Environment

Use the following steps to plan and prepare the product environment:

1. Plan and design the infrastructure, based on your business needs, for the installation. This includes:
 - Meeting the hardware and associated software requirements.
 - Acquiring the prerequisite software (and licensing).
 - Setting up the load balancers and clusters.
 - Gathering the capacity data.
 - Planning the data security policies.
 - Designing the backup and recovery strategies.
2. Determine the size of the implementation.
3. Identify source systems. Identify the systems that will exchange data with Place.

Planning for Optimal Place Performance

Consider the following steps to plan and prepare the product environment.

1. Determine the Place metrics relevant to your business needs.
2. Determine your relevant business policies. The business policy is a statement of what rules govern the application processes. You need to develop a business policy based on your business rules. For more information about business rules, see the *Place Configuration Guide*.
3. Plan the periodic batch loading of business and historical databases. This also includes the data feeds needed from the external systems for nightly, weekly, and periodic batch updates and recycling.

Supported Configurations

This section describes the hardware and network requirements for the Place application, and includes the following topics:

- [Network Requirements](#)
- [Database Requirements](#)
- [Application Server Requirements](#)
- [Client System Requirements](#)

Network Requirements

This section describes basic requirements for your network infrastructure:

- For connections between servers use the following:
 - Minimum: 100 MBps switched ethernet
 - Recommended: 1000 MBps
- For connections to the desktop, 100 MBps is sufficient.

Managed Server Configuration

You can host the Place application and the Calculation Engine over multiple server instances (managed servers), and set up clusters to improve the system performance. The following list illustrates a typical cluster configuration:

- Application Cluster - two or more managed server nodes that host instances of Place and its related applications.
- Calculation Engine Cluster - two managed server nodes that host instances of the Calculation Engine.

Note: Although the Place application can work along with managed servers, Failover clusters are not supported at the database or the application server tier. In an event of a failure of an instance, instead of the user's session migrating to another (spare) instance, the user will get redirected to the Place Login page.

For clustered and multi-server implementations, a hardware load balancer may be required. Cisco CSS series is supported.

Database Requirements

Place requires the use of the Oracle database as described in the following table:

Table 2–1 Oracle Database Requirements

Software	Requirement	
Database	Oracle 10g Release 2 (10.2.0.2)	Oracle 10g Release 2 (10.2.0.3)
Operating System	HP-UX 11i v2 (11.23) Enterprise Release on Itanium-based systems	Solaris 10 for SPARC platform and x86 platform (with appropriate libc and timezone patches).
Utilities		
file transfer protocol utility (ftp or ssh/scp/rsync)		
sudo utility		

Note: For Oracle 10g Database installations on the Solaris Operating System (x86-64), ensure that you apply the Oracle 10g Release 2 (10.2.0.2) Patch Set. For more information on this patch set, review the release document 316900.1 (ALERT: Oracle 10g Release 2 (10.2) Support Status and Alerts) available on the Oracle MetaLink Web site.

To locate this document on the Oracle MetaLink Web site,

- In the **Quick Find** section, for **Document ID**, enter **316900.1**, and click **Go**.
-

Application Server Requirements

Place requires the use of the BEA WebLogic 8.1 Server Service Pack 6.

WebLogic Application Server

Place supports the use of the BEA WebLogic Server on the Linux platform.

The following table lists the Linux requirements for the WebLogic Server:

Table 2–2 Linux Requirements for WebLogic

Software	Requirement
Operating System	Red Hat Enterprise Linux release 3.0 (Taroon), Update 6 with tzdata enhancement package (tzdata-2006m-3.el3).
Application Server	BEA WebLogic Server 8.1 Service Pack 6
JVM	On Red Hat Enterprise Linux environments, BEA WebLogic Jrockit 1.4.2_10

Important: You must run the Time Zone Updater tool to update the BEA Jrockit SDK with the latest time zone information that accommodates the U.S. 2007 daylight saving time changes (US2007DST). For more information, visit the BEA Jrockit online documentation at <http://edocs.bea.com/jrockit/geninfo/diagnos/tzupdate.html>

Client System Requirements

The following table lists the supported client system options:

Table 2–3 Client System Environment

Software	Requirements
Windows XP Pro SP2 (with Office XP)	<ul style="list-style-type: none">■ Microsoft Office XP■ Microsoft Internet Explorer 7.0
Windows XP Pro SP2 (with Office 2000)	<ul style="list-style-type: none">■ Microsoft Office 2000■ Microsoft Internet Explorer 7.0

Setting Up the Database

Before you run the Oracle installer to install the application, you must set up the database to include certain necessary tablespaces, and a database user account. This chapter describes how you can set up your database, and the various database components. It contains the following sections:

- [Installing the Database](#)
- [Creating the Default Tablespaces](#)
- [Creating the Default Data User Account](#)
- [Creating the Database Links](#)

Note: If your database requires multi-byte support, specify the following properties in your init.ora file:

```
CHARACTER_SET=AL32UTF8  
NLS_LENGTH_SEMANTICS=CHAR
```

Installing the Database

The application requires the use of the Oracle® 10g Database Release 2 (10.2.0.2) and the Natively Compiled Java Libraries (in the Oracle Database Companion CD).

Ensure that the Oracle Database software is installed along with the Natively Compiled Java Libraries. For more information, see the *Oracle Database Installation Guide, 10g Release 2 (10.2)* and *Oracle Database Companion CD Installation Guide, 10g Release 2 (10.2)*.

Note: To manage the associated data and other database components effectively, Oracle recommends that you set up separate instances for the business database and the historical database.

In case you plan to set up separate instances, you must create database links between the instances. For more information, see [Creating the Database Links](#).

Creating the Default Tablespaces

When you run the Oracle installer, schemas and tables for the application get installed on the database you create. For the schemas and tables to install successfully, the database must include certain default tablespaces.

Use the Oracle 10g Database Configuration Assistant to create a default database with the tablespaces mentioned in [Table 3–1, Business Database Tablespaces](#). For more information on using the Oracle 10g Database Configuration Assistant, see the Oracle 10g Release 2 Installation documentation.

Table 3–1 Business Database Tablespaces

Tablespace	Description
DATA_01	Required. Application tablespace for Place. Recommended size: 5 GB.
INDEX_01	Required. Application tablespace for the indexes of Place, STG, and ASH. Recommended size: 5 GB.
SYSTEM	System tablespace used for metadata.
SUSAUX	System tablespace used for system monitoring.
TEMP	System tablespace used for temporary system swap space.
RBS	System tablespace for automatically resolving data write clashes.

Note: The sizes of tablespaces depend on the amount of data being stored. For any sizing recommendations, see [Table 3–1, Business Database Tablespaces](#).

Creating the Default Data User Account

You must also create a default user account, that can be later specified to the Oracle Installer. The Oracle Installer connects to the Place database, using this user account, and installs the schemas and tables.

To create a user account:

- At the SQL prompt, type the following statement to create an user and set DATA_01 as the default tablespace:

```
CREATE USER <USERNAME> IDENTIFIED BY <USERNAME>
DEFAULT TABLESPACE DATA_01;
```

- Once the user is created, type the following statements to grant access privileges to the user:

```
GRANT CONNECT,RESOURCE,CREATE ANY TABLE,CREATE ANY SYNONYM,CREATE VIEW TO
<USERNAME>;
exec dbms_java.grant_permission(
'<USERNAME>', 'SYS:java.lang.RuntimePermission', 'getClassLoader', '')
```

Creating the Database Links

If you plan to install the Place application across two database instances, you must create the instances in the following manner, and then set up the database links between the two instances:

- Set up the ELM schema (historical data) on a database instance (for example, *INSTANCE1*).
- Set up the remaining database schemas (PLACE, AUDIT, OAK, and PINE schema) as a single BASE schema, on the other database instance (for example, *INSTANCE2*).

To create the database links:

1. At the SQL prompt, connect to the ELM schema on *INSTANCE1*, and then run the following command:

```
create database link <dblink_name_elm2base> connect to ELM identified by BASE  
using 'INSTANCE1';
```

2. At the SQL prompt, connect to the BASE schema on *INSTANCE2*, and then run the following command:

```
create database link <dblink_name_base2elm> connect to BASE identified by ELM  
using 'INSTANCE2';
```

Note: The *dblink_name_elm2base* and *dblink_name_base2elm* indicate the name of a database links you create between the instances.

Setting Up the Application Server

Before installing the Place application, you must set up a domain on the application server. Based on your business need, you must set up the domain to include one or more server instances, and logically related resources and services.

This chapter describes how you can set up a domain on the WebLogic server. It contains the following sections:

- [Installing the WebLogic Server](#)
- [Setting Up a WebLogic Domain](#)
- [Setting Up the WebLogic Startup Script](#)
- [Setting Up the Maximum Message Size](#)

If you plan to use clusters for the Place installation, Oracle recommends that you create the clusters before setting up the domain. Otherwise, the managed servers must be added manually. For information about managing clusters, see the documentation for your application server.

Installing the WebLogic Server

The Place application requires the use of the BEA WebLogic Server 8.1 SP6. Ensure that the Weblogic Server is installed on the system. For more information on installing the WebLogic Server, see the *BEA Online Documentation*.

In this guide, the WebLogic installation directory is referred to as the <WL_HOME> directory.

Setting Up a WebLogic Domain

Use the BEA WebLogic Configuration Wizard to create and set up a domain on the WebLogic Server. This section describes how you can create and set up a domain. It also includes the steps to configure the managed servers and clusters on the application server.

To set up a WebLogic domain:

1. Navigate to the .\weblogic81\common\bin directory, and run the following command to start the BEA WebLogic Configuration Wizard in the graphical mode:

```
sh config.sh
```
2. On the BEA WebLogic Configuration Wizard, follow the steps listed in the table below:

Table 4–1 Steps to Set Up a WebLogic Domain

Step	Window	Task
1.	<i>Create or Extend a Configuration Window</i>	Click Create a new WebLogic configuration, and then click Next .
2.	<i>Select a Configuration Template Window</i>	Under Templates , select Basic WebLogic Server Domain , and then click Next .
3.	<i>Choose Express or Custom Configuration Window</i>	Click Custom , and then click Next .
4.	<i>Configure the Administration Server Window</i>	<p>Enter appropriate information in the following fields:</p> <ul style="list-style-type: none"> ▪ Name – Valid server name. (String of characters that can include spaces.) ▪ Listen address – Listen address for a server instance. ▪ Listen port – Valid value for the listen port. The default value is 7001. ▪ SSL listen port – Valid value to be used for secure requests. The default value is 7002. <p>Click Next.</p>
5.	<i>Managed Servers, Clusters, and Machines Options Window</i>	<p>Click Yes to continue configuring the managed servers, clusters, and machines, and then click Next.</p> <p>Or</p> <p>Click No to proceed to the Database (JDBC) Options window (Step 6.)</p>

Table 4–1 Steps to Set Up a WebLogic Domain

Step	Window	Task
	a. Configure Managed Servers Window	<p>Click Add, and then enter appropriate information in the following fields:</p> <ul style="list-style-type: none"> ▪ Name – Valid server name. (String of characters that can include spaces.) ▪ Listen address – Listen address for a server instance. ▪ Listen port – Valid value for the listen port. The default value is 7001. ▪ SSL listen port – Valid value to be used for secure requests. The default value is 7002. <p>Repeat this step to add more managed servers.</p>
		Note: Oracle recommends that you set up separate hosts for the application and the Calculation Engine.
		Click Next .
	b. Configure Clusters Window	<p>This window appears, once you specify the managed servers.</p> <p>Click Add, and then enter appropriate information in the following fields:</p> <ul style="list-style-type: none"> ▪ Name – Valid cluster name. (String of characters that can include spaces.) ▪ Multicast address – Address used by the cluster members to communicate with each other. The default value is 237.0.0.1. ▪ Multicast port – Port used by the cluster members to communicate with each other. The default value is 7777. ▪ Cluster address – Address that identifies the Managed Servers in the cluster. ▪ Frontend host – Server name or listen address of the proxy server that acts as a front-end host. ▪ Frontend HTTP port – Port number for the proxy server that acts as a front-end host. <p>Repeat this step to specify more clusters.</p>
		Click Next .
	c. Configure Machines Window	Click Add , and then add the machine (unix-based) information.
	d. Assign Servers to Machines Window	Use the arrow keys and assign the managed servers to the clusters specified in the domain.
6.	<i>Database (JDBC) Options Window</i>	Click No , and then click Next .
7.	<i>Messaging (JMS) Options Window</i>	Click No , and then click Next .

Table 4–1 Steps to Set Up a WebLogic Domain

Step	Window	Task
8.	<i>Configure Administrative Username and Password Window</i>	<p>Set up an administrative user name and password.</p> <p>Important: Please keep a note of the user name and password. You must specify this user name and password in the <code>install.properties</code> file. The Oracle Installer uses this user account to connect to the WebLogic Server during Place installation.</p>
9.	<i>Configure Windows Options Window</i>	Click Next .
10.	<i>Build Start Menu Entries Window</i>	Click Next .
11.	<i>Configure Server Start Mode and Java SDK Window</i>	<p>Under WebLogic Configuration Startup Mode, click Production Mode.</p> <p>Under JAVA SDK Selection, click JRockit SDK 1.4.2_08-8150.</p>
12.	<i>Create WebLogic Configuration Window</i>	<p>Click Next.</p> <p>Review the configuration summary, and then type an appropriate domain name in the Configuration Name field.</p>
13.	<i>Creating Configuration Window</i>	<p>Displays the domain configuration progress.</p> <p>Once the configuration is complete, click Done.</p>

Setting Up the WebLogic Startup Script

Before you start the WebLogic server, you must edit the `startWeblogic.sh` and set up the WebLogic server connection information, LD_LIBRARY_PATH environment variables, and the JAVA_DEBUG_OPTIONS.

To set up the WebLogic Startup script,

1. Add the following statements after the **SERVER_NAME = <server name>** statement:

```
WLS_USER=<weblogic username>
WLS_PW=<weblogic password>
CONFIG_ROOT="<>PRODUCT_INSTALL_BASE>/config"
```

Where,

- <weblogic username> – indicates the WebLogic username.
- <weblogic password> – indicates the WebLogic password.
- <PRODUCT_INSTALL_BASE> indicates the installation directory path.

If you do not want to set the user name and password in this statement, you must set up a Boot Identity file that contains user credentials for starting and stopping an instance of WebLogic Server. For more information, see the WebLogic documentation on setting up a Boot Identity file.

2. After the **CLASSPATH** statement, add the following statement to set up the **LD_LIBRARY_PATH** environment variable:

```
export LD_LIBRARY_PATH=${PRODUCT_INSTALL_BASE}/modules/Engine/lib/linux_i686:$LD_LIBRARY_PATH
```

Note: You can choose to set up this environment variable as part of the automation process (for example, *.bash_profile*) defined for your business.

3. On the last line, update the **JAVA_HOME** statement to read as the following:

```
 ${JAVA_HOME}/bin/java ${JAVA_VM}${MEM_ARGS}${JAVA_OPTIONS}
-Djava.awt.headless=true -Dweblogic.Name=${SERVER_NAME}
-Dweblogic.ProductionModeEnabled=${PRODUCTION_MODE}
-Dcom.profitlogic.configroot=${CONFIG_ROOT}
-Dweblogic.management.username=${WLS_USER}
-Dweblogic.management.password=${WLS_PW}
-Djava.security.policy="${WL_HOME}/server/lib/weblogic.policy" weblogic.Server
```

Setting Up the Maximum Message Size

The maximum message size setting, for the WebLogic Server, helps guard against any attempts that force the server to allocate more memory (than is available) and prevent the server from responding quickly to other requests. This setting defaults to a maximum message size of 10MB.

For the Place application and Calculation Engine to exchange forecast information efficiently, you must set this value to 128MB for the Place application and Calculation Engine server domains.

To update the maximum message size value:

1. Log on to the WebLogic Administration console. You can access the console at the following URL:

<http://servername:portnumber/console>

Table 4–2 Servername and Portnumber Description

Where	Is
servername	The name of the application server where the application is installed.
portnumber	The port number that the application server uses for the application.

2. On the WebLogic Server Console, under **Domain Configurations**, click **Servers** in the **Network Configuration** column.
3. On the **Servers** page, under **Name**, click the server you want.
The server configuration page appears.
4. On the **Protocols** tab, in the **General** section, click the **Show** link next to **Advanced Options**.
5. In the **Advanced Options** section, type **1280000000** in the **Maximum Message Size** field.
6. Click **Apply**.

Installing Place

After you have set up your database and application server, you can install Place using the guidelines provided in this chapter. This chapter contains the following sections:

- [Overview of the Installation Process](#)
- [Installing Place](#)
- [Install.properties Parameters Reference](#)
- [Troubleshooting Installation Issues](#)

Overview of the Installation Process

Note: Although the options for IBM AIX, DB2, and WebSphere display on the Oracle Installer, they are not supported in this release.

In order to install Place, your first task is to obtain the installation media. You can then choose the installation mode you prefer. Whichever mode you use, you first need to set up the Place properties file. The installation modes are as follows:

- Graphical mode – In the graphical mode, the Oracle Installer displays a graphical user interface and prompts you to enter or modify the value of the properties specified in the properties file.
- Silent mode – In the silent mode, the installer processes the properties file without any manual intervention.

About Password Security Management

The Place application includes a Password Security Management module that helps you generate and store encrypted passwords used in the application. This enables you to meet the password encryption security policies or laws mandated for your business.

When you start the installation or upgrade process for the application, the Oracle Retail Installer checks for the secret key file in the configuration root directory. In case a secret key file is not found, a new secret key file is generated. Once the secret key file is found or generated, all clear-text passwords entered in the Installer screens get encrypted, and then stored in the relevant configuration files and scripts. Once the application is installed and running, the application configuration files and scripts interact with each other through the Password Security Management Java APIs.

For more information, refer to the *MetaLink Note 737759.1: Oracle Retail Password Security Management Guide*.

Installing Place

Installing Place consists of the following tasks:

- [Accessing the Installation Software](#)
- [Setting Up Your Installation Properties File](#)
- [Installing Place in the Silent Mode](#)
- [Installing Place Using the Graphical Oracle Installer](#)
- [Installing the Sample Dataset](#)

Note: During the installation, passwords entered on screen or set up in the install.properties file get encrypted using the Password Security Management module. For more information, see [About Password Security Management](#).

Accessing the Installation Software

In order to install Place, you first need to obtain the software media, available on a DVD or on a secure URL in a ZIP file. This section explains how you can download the Place software ZIP file from the Oracle E-Delivery site.

To download the Place software:

1. From the application server where you will be installing Place, open a browser and navigate to the following URL:

<http://edelivery.oracle.com/>

The **Oracle E-Delivery** download page displays.

2. Select a language and click **Continue**.

The **Export Validation** screen displays.

3. Type the appropriate information in the following fields, and then click **Continue**.

- **Full Name** - Enter your full name.
- **Company Name** - Enter your company name.
- **E-mail Address** - Enter your e-mail address.
- **Country** - Select your country.
- **License Agreement** - Click the check box.
- **Export Restrictions** - Click the check box.

The **Media Pack Search** screen displays.

4. Type appropriate information in the following fields, and then click **Go**.

- **License List** - Review the list to determine which Product Packs you need to download.
- **Product Pack** - Select **Oracle Retail Applications**.
- **Platform** - Select the desired operating system. Optional.

The **Oracle Retail Place Media Pack** screen displays.

5. In the **Select** column, click **Download**.

Oracle E-Delivery writes a ZIP file to the default location you have selected for downloads.

6. Unpack the ZIP file to a temporary directory. In this guide, the directory that contains the installation media is referred to as the <PLACE_CD_IMAGE> directory.

Now you can set up your Place installation properties file.

Setting Up Your Installation Properties File

In order to install Place, you first need to specify the properties to use during the installation process. These properties are specified in the `install.properties` file.

To set up your `install.properties` file:

1. Ensure that your <PLACE_CD_IMAGE> directory exists and is populated, as described in [Accessing the Installation Software](#), on page 5-2.
2. Navigate to the <PLACE_CD_IMAGE> directory and copy the `reference.install.properties` file to the same directory, naming it `install.properties`.
3. Edit the `install.properties` file, specifying values as described within the file, and save it.

Now you can install Place using one of the following modes:

- [Installing Place in the Silent Mode](#)
- [Installing Place Using the Graphical Oracle Installer](#)

Installing Place in the Silent Mode

This section describes how to install Place in silent mode. The silent mode is non-interactive.

To install Place in silent mode:

1. Ensure that you have completed "Setting Up Your Installation Properties File" on page 5-3.
2. Make sure that your application server is running.
3. From your application server machine, enter the following command:

```
bash install.sh -s
```

install.sh

The `install.sh` command enables you to install Place.

Syntax

```
install.sh [-P] [-s] [-p <path-to-install.properties-file>] forcecomponentinstall
```

Arguments

Use any arguments listed below as needed.

Argument	Description
-s	Optional. Silent mode. If you omit this option, the Oracle Installer user interface displays.

Argument	Description
-p <path-to-install.properties>	Optional. Specifies an alternate path to the install.properties file. Defaults to ./install.properties.
-l, --log-config	Optional. Specifies an alternate log4j configuration file (to change the verbosity level or the log file output location). Defaults to ./Install/conf/log4j.properties. The log4j log file is used for troubleshooting.
-y -n	Optional. Specifies whether or not to overwrite existing files. Defaults to -y (overwrite).
-d <XML path>	Optional. Specifies an alternate path to the XML install scripts. Defaults to ./InstallScripts.
-x <filename.xml>	Optional. Specifies an alternate XML install script file within the ./InstallScripts directory.
-i, --websphere -b, --weblogic	Optional. For specifying your application server.
-h	Optional. Prints a help message.

Return Value

When run in the silent mode (install.sh -s), a trace message appears on the console (the stdout). When run in the Oracle Installer mode (the default), the script displays a graphical user interface.

Output

The Place installation creates the Place directory structure, populates it with appropriate files, and when the installation finishes, a log file and two properties files are generated.

If the installation resulted in issues, see [Troubleshooting Installation Issues](#).

Installing Place Using the Graphical Oracle Installer

If you prefer to use a guided user interface, you can use the graphical Oracle Installer.

To install Place using the Oracle Installer:

1. Ensure that you have completed "[Setting Up Your Installation Properties File](#)" on page 5-3.

Note: Although you can run the installation without setting up the installation properties file, ensure that you set up the installation properties file, and then start the installation.

2. Ensure that your application server software is running.
3. If you are viewing the installer from a Windows client:
 - On the **Windows** client, start an **Xserver** program that enables you to emulate the X terminal.
 - On the application server, set the display for the Windows client where you want the Oracle Installer to display as follows:

```
export DISPLAY=<IP address>:0.0
```
4. From your application server machine, enter the following command:

```
bash install.sh
```

Note: For more information about this command, see [Installing Place in the Silent Mode](#).

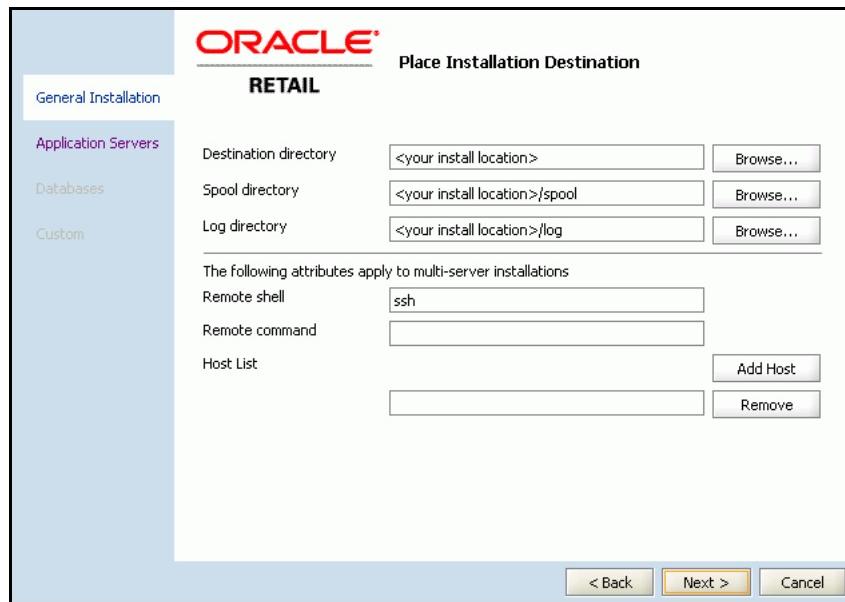
The **Welcome** screen appears.

Figure 5–1 Welcome Screen



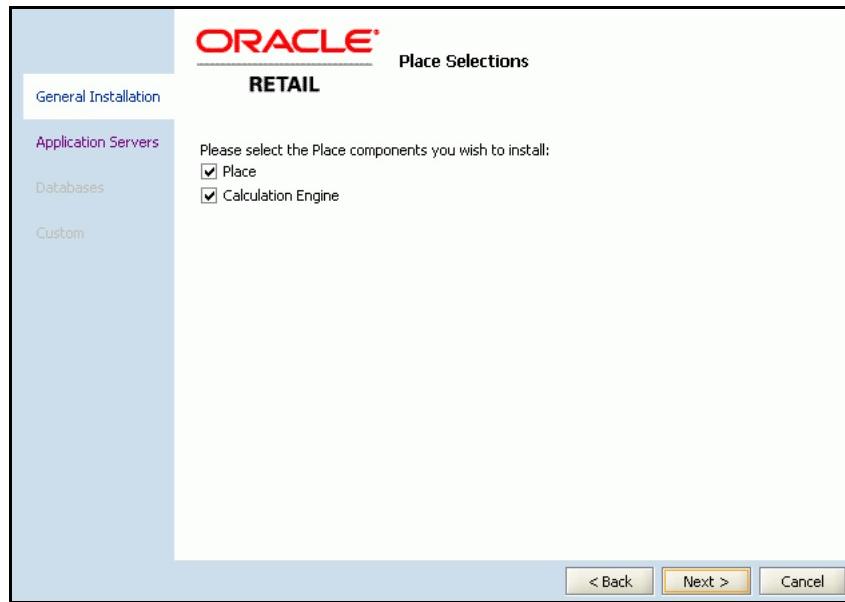
5. Click Next. The **Place Installation Destination** screen appears.
6. On the **Place Installation Destination** screen, specify the paths for the following:
 - **Destination Directory** - path to the Place installation target directory.
 - **Spool Directory** - path to the Place spool directory.
 - **Log Directory** - path to the Place installation log files.

Figure 5–2 Place Installation Destination Screen



7. Click **Next**. The **Place Selections** screen appears.
8. On the **Place Selections** screen, select the component you want to install, and click **Next**.

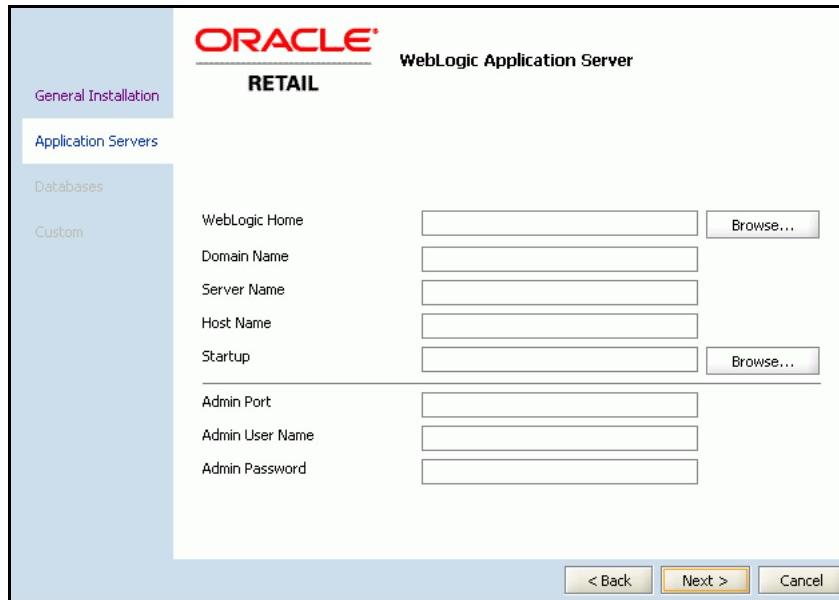
Figure 5–3 Place Selections Screen



9. On the **Application Server Selections** screen, click **BEA WebLogic**, and then click **Next**.

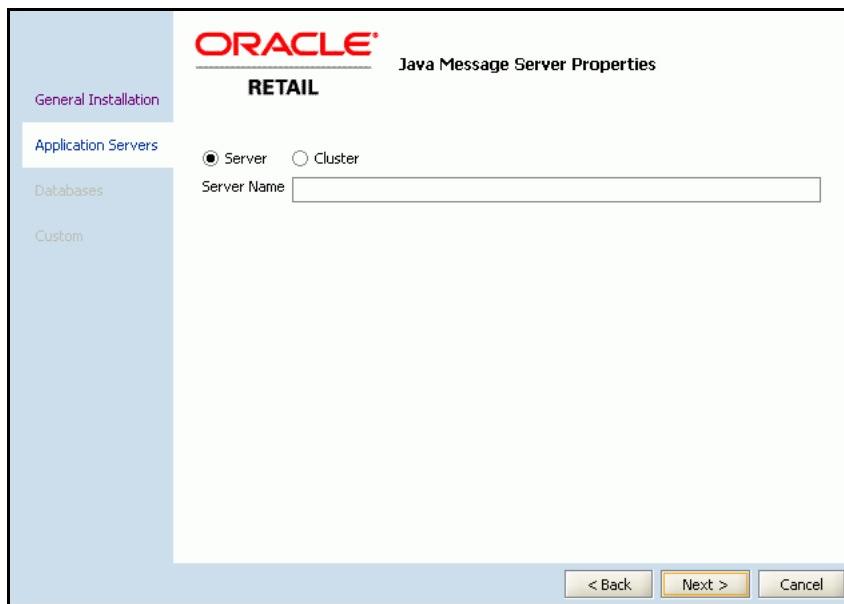
Figure 5–4 Application Server Selections Screen

10. On the **WebLogic Application Server** screen, enter the relevant information (such as host, port, user name, password) to connect to the WebLogic server set up for the application.

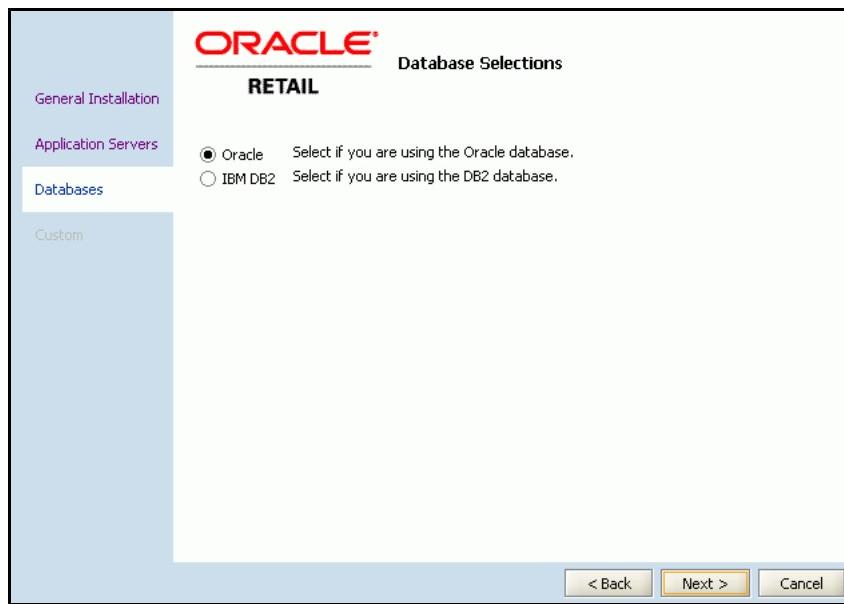
Figure 5–5 WebLogic Application Server

Note: In case the installation does not proceed ahead, check the WebLogic server information or the status of the application server.

11. On the **Java Message Server Properties** screen, specify the name of the server or cluster that you may have set up as a Java Message Server (JMS).

Figure 5–6 Java Message Server Properties Screen

12. Click **Next**. The **Database Selections** screen appears.
13. On the **Database Selections** screen, click **Oracle**, and then click **Next**.

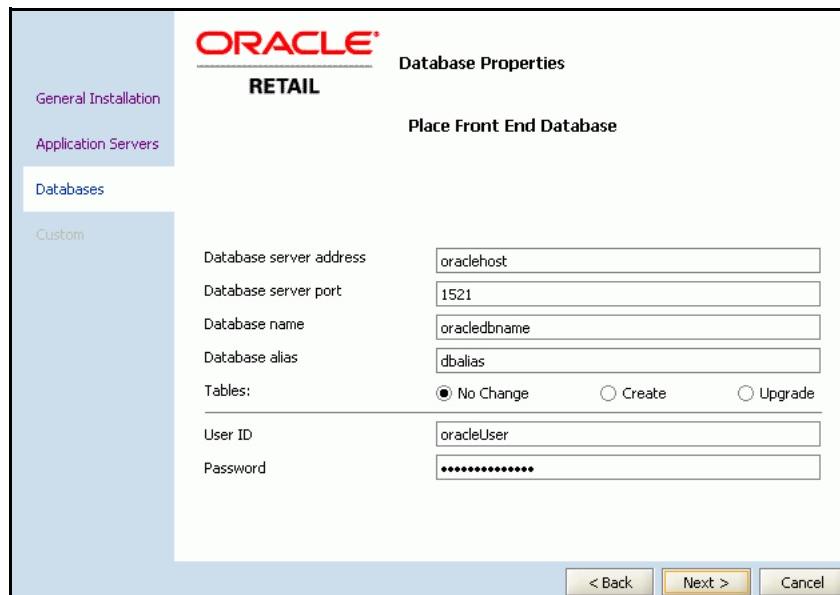
Figure 5–7 Database Selections Screen

14. On the **Database Properties** screen, enter the following database information for the **Place Front End**, **Actual History**, **Application**, **Audit**, and **Plan Front End** databases:
 - **Database server address** – Enter the address of the database server.
 - **Database server port** – Enter the server port number associated with your database.
 - **Database name** – Enter the name used to identify your database.

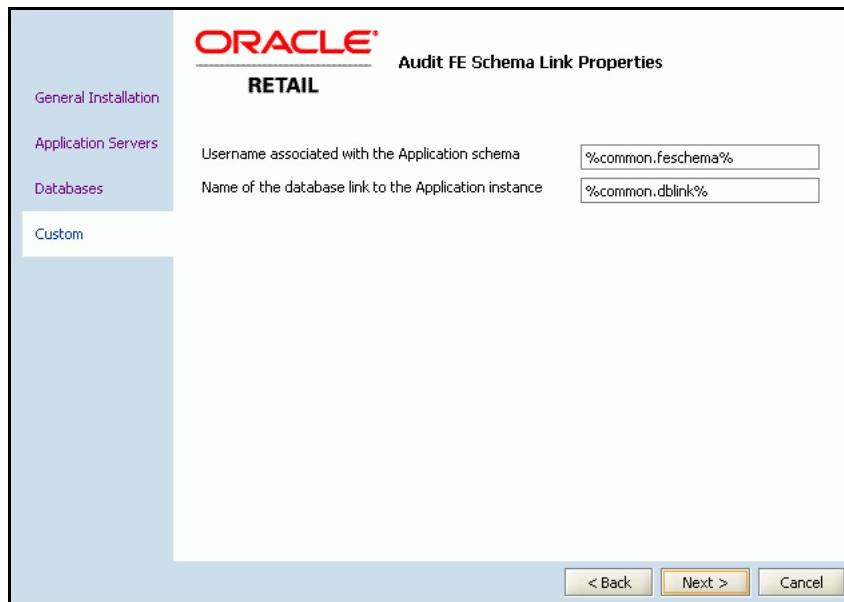
- **Database alias** – Enter the database alias, which is typically the same name as the database.
- **Tables** – Select one of the following options:
 - **No Change** – Select this option if you have an existing database schema that you do not want to modify. This enables you to configure data sources, EAR files, and so forth, without affecting the database.
 - **Create** – Select this option if you are installing a new database schema for Place. The Oracle Installer drops all the schemas and creates new ones.
 - **Upgrade** – Select this option if you have an existing database schema that you want to update. Any existing data remains intact and modified on a row-by-row, column-by-column basis, depending on the actions specified in the database patches.
- **User ID** – Enter the user name associated with the database.
- **Password** – Enter the password associated with the database.

Note: During the installation, passwords set up in the install.properties file or on the Database Properties screens get encrypted using the Password Security Management module. For more information, refer to the *Metalink Note 737759.1: Oracle Retail Password Security Management Guide*.

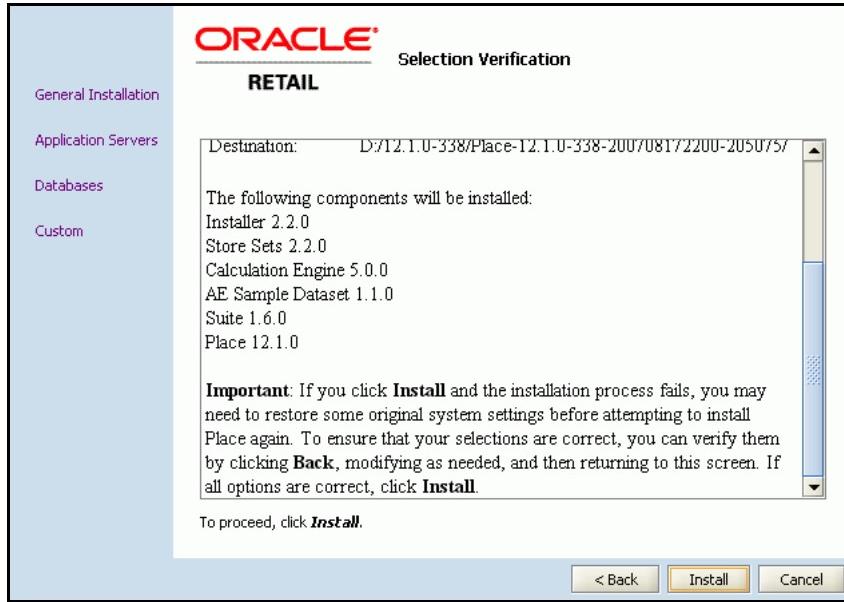
Figure 5–8 Database Properties Screen



15. On the **Audit FE Schema Link Properties** screen, specify the user name and the database link associated with the application schema, and then click **Next**.

Figure 5–9 Schema Link Properties Screen

- 16.** Review the **Selection Verification** screen, and click **Install**.

Figure 5–10 Selection Verification Screen

The **Installation Progress** screen appears.

If the installation resulted in issues, see [Troubleshooting Installation Issues](#) on page 5-24.

- 17.** Once the installation is complete, before you restart the application server, you must edit the WebLogic startup script and source the Application Development Framework (ADF) libraries in the WebLogic Server Home directory. For more information, see [Setting Up ADF Libraries](#).

Setting Up ADF Libraries

For the Online Help to work, you must invoke the ADF libraries in the WebLogic Server Home directory. Although the ADF libraries are part of the product installation and they get installed along with the product, you must source the *setupadf.sh* file in the WebLogic startup script.

To source the *setupadf.sh* in the WebLogic startup script:

1. Edit the WebLogic startup script, and add the following text above the CLASSPATH section:

```
source <Place_Installation>/config/adf/setupadf.sh
```

2. Restart the application server.

Note: When you run the product installer, the ADF libraries get installed in the modules folder (<Place_Installation>/modules/adf/) and the *setupadf.sh* and *setupadf.cmd* scripts get installed in the configuration root folder (<Place_Installation>/config/adf/).

For more information on the Application Development Framework (ADF), visit:

<http://www.oracle.com/technology/products/adf/learnadf.html>

Post-Installation Tasks

Now that you have installed Place, restart your application server software and proceed with the following options:

- Set up the targets for AllocationServer and XIntJMSServer.
Applies to cluster-based installations. See [Setting Up Targets for the JMS Servers](#).
- If you are ready to start working with your business data, perform the following tasks:
 - [Loading Business Rules](#)
 - [Loading User Roles](#)
 - [Loading Seed Data](#)
- If you want to maximize system performance, you can tune your Calculation Engine.

Setting Up Targets for the JMS Servers

In a cluster-based Place installation, the AllocationServer and XIntJMSServer JMS servers are installed on the administrative server instead of the managed server.

For the forecasts to work, these JMS servers must be installed on the managed server. To set up the targets for these JMS servers:

1. Log on to the WebLogic Administration console. You can access the console at the following URL:

<http://servername:portnumber/console>

Table 5–1 Servername and Portnumber Description

Where	Is
servername	The name of the application server where the application is installed.
portnumber	The port number that the application server uses for the application.

2. On the WebLogic Server Console, under **Service Configurations**, click **Servers** in the **JMS** column. The **JMS Servers** page appears.
3. On the **JMS Servers** page, click **AllocationServer**.
4. On the **AllocationServer** page, click the **Target and Deploy** tab.
5. On the **Target and Deploy** tab, select the managed server in the **Target** field, and click **Apply**.

Repeat steps 3–5 for **XIntJMSServer**.

Loading Business Rules

Use the Business Rules Management Administration shell script (`brmadmin.sh`) to load the business rule definitions set up for the Place application. The script loads the business rule definitions specified in a rule definitions file.

The rule definitions are set up based on your business needs and includes the business rules information for the Place application. Ensure that this file is available during the implementation. You can find a sample rules definition file, `place_rule_definitions_with_attrs.xml`, at the following location:

`<Place_Installation>\modules\tools\conf\SampleRules`

For more information, see the section *Loading Business Rule Definitions* in the *Place Configuration Guide*.

Loading User Roles

Use the User Management Bulk Loader script to load the user roles set up for the Place application. The Bulk Loader script loads the user roles specified in a role set file.

The role set and role assignments are set up based on your business needs and include the user accounts and roles access information for the Place application. Ensure that this file is available during the implementation. You can find sample user roles set files, `place_role_set.xml`, `place_user_set.xml`, `place_role_assignment_set.xml`, at the following location:

`<Place_Installation>\modules\tools\conf`

For more information, see the chapter *User Management* in the *Place Configuration Guide*.

Loading Seed Data

Place provides a set of scripts that stage, transform, and load data into the target database tables in the Place database. It is also referred to as the standard load.

Before starting the data load process, configure and run scripts that load the seed data. For more information, see the chapter *Database Configuration* in the *Place Configuration Guide*.

Installing the Sample Dataset

The Place installation comes along with a sample dataset that can be used during implementation and demonstrations. This dataset contains generic data and is designed to work along with the default product configuration. The data files, along with the necessary data load scripts, are included as part of the installation media.

When you run the Oracle Installer, the sample dataset does not get installed by default. You must manually access and run the data load script to load the sample data.

Important: When you load the data or perform a full refresh of the data, ensure that the *First Create Date* field (in the *merchandise_hierarchy_tbl* table) includes a valid date (as specified by your business).

The *First Create Date* field indicates the date when the merchandise was created, and an appropriate value is essential for the forecast to generate successfully.

You can find the sample dataset and the data load scripts at the following location in your Place installation directory:

<Place_installation>/modules/Datasets/AESample/Data

<Place_installation>/modules/Datasets/AESample/DeployScripts

To load the sample data:

1. Navigate to the following location in the Place installation directory:

<Place_installation>/modules/Datasets/AESample/DeployScripts

2. Run the following script:

Place.sh

3. Type **N** (No) for the confirmation messages that prompt you to install the optimized history and retail data mart schemas.

If you want to load the data in a database, other than the database set up for the application, you must modify the database schema locations in the following script files:

- *plexports.sh* for business data schema
- *plexports_elm.sh* for actual history data schema

If you are installing the Place application over an existing installation of Plan, you can also modify the database schema locations in the following scripts to load the data in a different database:

- *plexports_opt.sh* for optimized history data schema
- *plexports_rdm.sh* for retail data mart schema

Install.properties Parameters Reference

The install.properties file enables you to set up the following parameters before you install Place:

- [Installation Target Directories](#)
- [Command Shell Settings](#)
- [Last Session Properties Files](#)
- [Application Server and Database Settings](#)
- [Connection Pools Settings](#)
- [WebLogic Application Server Settings](#)
- [Oracle Database Settings](#)
- [Place-specific Suite Properties](#)
- [Cluster Properties](#)
- [MicroStrategy Properties](#)

Installation Target Directories

The Installation Target Directories settings enable you to set up the paths where you want the base installation, log, and spool files to be stored.

The following table describes the Installation Target Directories settings:

Table 5–2 Installation Target Directories

Parameter	Description
installdir	Use this parameter to specify the path to the default base installation folder.
basedest.basedest.dir	Use this parameter to specify the path to the base installation folder.
basedest.baselog.dir	Use this parameter to specify the path to the folder that contains the log files.
basedest.basespool.dir	Use this parameter to specify the path to the folder that contains the spool files.

Command Shell Settings

The Command Shell settings enable you to specify the shell command you can use to execute shell scripts.

The following table describes the Command Shell setting:

Table 5–3 Command Shell Properties

Parameter	Description
install.command.shell	Use this parameter to specify the shell command to use when you want to execute the shell scripts.

Last Session Properties Files

The Last Session Properties Files settings enable you to specify the location where you want to store the last-session.properties and missing-entries.properties files.

The following table describes the Last Session Properties Files settings:

Table 5–4 Last Session Properties Files

Parameter	Description
install.properties.savefile	Use this parameter to specify the location where you want to store the last-session.properties file. This file generates once you exit from the installer, and contains all the property names and values used in the last installation.
missing.properties.savefile	Use this parameter to specify the location where you want to store the missing-entries.properties file. This file generates just before the installer exits, and contains all the property names and values that could not be resolved during installation.

Application Server and Database Settings

The Application and Database settings enable you to specify the default application server for the Place application and the database.

The following table describes the Application Server and Database settings:

Table 5–5 Application Server and Database Settings

Parameter	Description
install.appserver	Use this parameter to specify the default application server. For Place, specify weblogic.

Connection Pools Settings

The Connections Pools settings enable you to specify the minimum and maximum database connections in the connection pools used in the Place application.

The following table describes the Connection Pools settings:

Table 5–6 Connections in the Connection Pools

Parameter	Description
weblogic.connectionpool.min	Use this parameter to specify the minimum database connections in a connection pool.
weblogic.connectionpool.max	Use this parameter to specify the maximum database connections in a connection pool.
weblogic.dbcpool.commonconnectionpool.min	Use this parameter to specify the minimum database connections in the common connection pool.
weblogic.dbcpool.commonconnectionpool.max	Use this parameter to specify the maximum database connections in the common connection pool.
weblogic.dbcpool.businessconnectionpool.min	Use this parameter to specify the minimum database connections in the business connection pool.
weblogic.dbcpool.businessconnectionpool.max	Use this parameter to specify the maximum database connections in the business connection pool.
weblogic.dbcpool.forecastconnectionpool.min	Use this parameter to specify the minimum database connections in the forecast connection pool.
weblogic.dbcpool.forecastconnectionpool.max	Use this parameter to specify the maximum database connections in the forecast connection pool.

Table 5–6 Connections in the Connection Pools

Parameter	Description
weblogic.dbcpool.historicalconnectionpool.min	Use this parameter to specify the minimum database connections in the historical connection pool.
weblogic.dbcpool.historicalconnectionpool.max	Use this parameter to specify the maximum database connections in the historical connection pool.
weblogic.dbcpool.analyticalconnectionpool.min	Use this parameter to specify the minimum database connections in the analytical connection pool.
weblogic.dbcpool.analyticalconnectionpool.max	Use this parameter to specify the maximum database connections in the analytical connection pool.
weblogic.dbcpool.runtimeconnectionpool.min	Use this parameter to specify the minimum database connections in the runtime connection pool.
weblogic.dbcpool.runtimeconnectionpool.max	Use this parameter to specify the maximum database connections in the runtime connection pool.
weblogic.dbcpool.auditconnectionpool.min	Use this parameter to specify the minimum database connections in the audit connection pool.
weblogic.dbcpool.auditconnectionpool.max	Use this parameter to specify the maximum database connections in the audit connection pool.

Calc Engine User Setting

The Calc Engine User setting enables you to specify the password for the Calc Engine default user account.

The following table describes the Calc Engine User setting:

Table 5–7 Calc Engine User Setting

Parameter	Description
calcengine.admin.password	Use this parameter to specify the password for the Calc Engine default user account. The value defaults to <i>calcengine</i> . Important: Oracle recommends that you do not change the default value.

WebLogic Application Server Settings

The WebLogic Application Server settings enable you to specify the application server parameters for the Place application.

The following table describes the WebLogic Application Server settings:

Table 5–8 WebLogic Application Server Settings

Parameter	Description
weblogic.admin.userid	Use this parameter to specify the WebLogic admin user name.
weblogic.admin.password	Use this parameter to specify the WebLogic admin password.
weblogic.server.address	Use this parameter to specify the URL to connect to the WebLogic application server.
weblogic.admin.port	Use this parameter to specify the port to connect to the WebLogic application server.
weblogic.domain	Use this parameter to specify the name of the domain created on the WebLogic application server.
weblogic.server	Use this parameter to specify the name of the server instance.

Table 5–8 WebLogic Application Server Settings

Parameter	Description
weblogic.managedserver.address	Indicates the URL to connect to the managed server. The value defaults to the URL specified in the <i>weblogic.server.address</i> parameter. For a clustered-based installation, ensure that you set the appropriate managed server address.
weblogic.managedserver.port	Indicates the port to connect to the managed server. The value defaults to the port specified in the <i>weblogic.admin.port</i> parameter. For a clustered-based installation, ensure that you set the appropriate managed server port.
bea.home	Use this parameter to specify the path to the BEA base directory. For example, C:\BEA.
weblogic.home	Use this parameter to specify the path to the WebLogic server in the BEA base directory. For example, C:\BEA\weblogic81\server
weblogic.start	Use this parameter to specify the path to the WebLogic startup shell script (startWebLogic.sh).

Oracle Database Settings

The Oracle Database settings enable you to specify the Oracle database parameters for the Place application. The following table describes the following database settings:

- [Connection and Authentication Settings](#)
- [Audit Database Properties](#)
- [Place Schema Properties](#)
- [Plan Front End Database Properties](#)
- [ELM Schema Properties](#)

Connection and Authentication Settings

The Connection and Authentication settings enable you to specify the parameters used by the Place application to communicate with the database.

The following table describes the Connection and Authentication settings:

Table 5–9 Connection and Authentication Settings

Parameter	Description
install.database.default	Use this parameter to specify the default database. For Place, specify oracle .
install.database	Use this parameter to specify the installed database.
Custom Values – These parameters are used to set values in the other database parameter, and are not used in the Oracle Installer directly.	
dbms.oracle.host	Use this parameter to specify the URL where the Oracle database is installed.
dbms.oracle.port	Use this parameter to specify the port to connect to the database.
dbms.oracle.db	Use this parameter to specify the database name.

Table 5–9 Connection and Authentication Settings

Parameter	Description
dbms.oracle.alias	Use this parameter to specify the database alias name.
dbms.oracle.user	Use this parameter to specify the user name to connect to the database.
dbms.oracle.pass	Use this parameter to specify the password to connect to the database.
Oracle DB Configuration	
database.commondb.oracle.address	Use this parameter to specify the URL where the Oracle database is installed.
database.commondb.oracle.dbalias	Use this parameter to specify the database alias name.
database.commondb.oracle dbname	Use this parameter to specify the database name.
database.commondb.oracle.dbport	Use this parameter to specify the port to connect to the database.
Database Authentication Credentials	
database.commondb.oracle.auth.commonoracleauth.user	Use this parameter to specify the user name to connect to the database.
database.commondb.oracle.auth.commonoracleauth.password	Use this parameter to specify the password to connect to the database.
database.commondb.oracle.auth.cepineauth.user	Use this parameter to specify the user name to connect to the PINE (CE Database) schema in the Calculation Engine.
database.commondb.oracle.auth.cepineauth.password	Use this parameter to specify the password to connect to the PINE (CE Database) schema in the Calculation Engine.
database.commondb.oracle.auth.ceeedauth.user	Use this parameter to specify the user name to connect to the WEED (CE Output) schema in the Calculation Engine.
database.commondb.oracle.auth.ceeedauth.password	Use this parameter to specify the password to connect to the WEED (CE Output) schema in the Calculation Engine.
database.commondb.oracle.auth.cedar.user	Use this parameter to specify the user name to connect to the CEDAR (CE Demand Parameters) schema in the Calculation Engine.
database.commondb.oracle.auth.cedar.password	Use this parameter to specify the password to connect to the CEDAR (CE Demand Parameters) schema in the Calculation Engine.

Audit Database Properties

The Audit Database properties enable you to specify the connection and authentication parameters for the Audit database.

The following table describes the Audit Database properties:

Table 5–10 Audit Database Properties

Parameter	Description
database.AuditDB.oracle.dbname	Use this parameter to specify the name of the Audit database.
database.AuditDB.oracle.auth.auditoracleauth.user	Use this parameter to specify the user name to connect to the Audit database.
database.AuditDB.oracle.auth.auditoracleauth.password	Use this parameter to specify the password to connect to the Audit database.
database.AuditDB.oracle.dbalias	Use this parameter to specify the Audit database alias name.
database.AuditDB.oracle.address	Use this parameter to specify the URL where the Audit database is installed.
database.AuditDB.oracle.port	Use this parameter to specify the port to connect to the Audit database.
Database Authentication Credentials for AUDIT	
database.auditdb.oracle.auth.auditoracleauth.user	Use this parameter to specify the user name to connect to the Audit database.
database.auditdb.oracle.auth.auditoracleauth.password	Use this parameter to specify the password to connect to the Audit database.
AUDIT property for Creating the Database	
database.auditdb.oracle.create	Use this parameter to indicate that a new Audit database must be created.
AUDIT property for Upgrading the Database	
database.auditdb.oracle.upgrade	Use this parameter to specify that the existing database be upgraded to include the Audit schema.
common.feschema	Use this parameter to specify the user name associated with the application schema.
common.dblink	Use this parameter to specify the database link to access the common components schema through the audit schema. If the schema exists in the same instance, specify <i>none</i> .
database.commondb.oracle.main_elm_dblink	Use this parameter to specify the database link to access the ELM schema through the audit schema. If the schema exists in the same instance, specify <i>none</i> .
database.commondb.oracle.create	Use this parameter to specify that a new database schema must be created. Valid values are Yes or No.
database.commondb.oracle.upgrade	Use this parameter to specify that the existing database schema be upgraded. Valid values are Yes or No.

Place Schema Properties

The Place Schema properties enable you to specify the connection and authentication parameters for the Place schema in the Place database.

The following table describes the Place Schema properties:

Table 5–11 Place Schema Properties

Parameter	Description
Properties to Define the Place Database	
database.placedb.oracle.address	Use this parameter to specify the URL where the Place Front End database is installed
database.placedb.oracle.dbalias	Use this parameter to specify the Place Front End database alias name.
database.placedb.oracle dbname	Use this parameter to specify the Place Front End database name.
database.placedb.oracle.dbport	Use this parameter to specify the port to connect to the Place Front End database.
Database authentication credentials for Place	
database.placedb.oracle.auth.placeoracleauth.user	Use this parameter to specify the user name to connect to the Place Front End database.
database.placedb.oracle.auth.placeoracleauth.password	Use this parameter to specify the password to connect to the Place Front End database.
Place property for Creating the Database	
database.placedb.oracle.create	Use this parameter to indicate that a new Place Front End database be created.
Place property for Upgrading the Database	
database.placedb.oracle.upgrade	Use this parameter to indicate that the existing database be upgraded to include the Place Front End schema.

Plan Front End Database Properties

The Plan Front End Database (Plandb schema) properties enable you to specify the connection and authentication parameters for the Plan Front End schema in the Plan database.

The following table describes the Plan Front End Database properties:

Table 5–12 Plan Front End Database Properties

Parameter	Description
database.plandb.oracle.address	Use this parameter to specify the URL where the Plan database is installed.
database.plandb.oracle.dbalias	Use this parameter to specify the Plan database alias name.
database.plandb.oracle dbname	Use this parameter to specify the Plan database name.
database.plandb.oracle.dbport	Use this parameter to specify the port to connect to the Plan database.
database.plandb.oracle.auth.planOracleAuth.user	Use this parameter to specify the user name to connect to the Plan database.
database.plandb.oracle.auth.planOracleAuth.password	Use this parameter to specify the password to connect to the Plan database.

Table 5–12 Plan Front End Database Properties

Parameter	Description
database.plandb.oracle.create	Use this parameter to indicate that a new Plan database be created. Valid values are Yes or No.
database.plandb.oracle.upgrade	Use this parameter to indicate that the existing Plan database be upgraded. Valid values are Yes or No.

ELM Schema Properties

The ELM Schema properties enable you to specify the connection and authentication parameters for the ELM schema in the Place database.

The following table describes the ELM Schema properties:

Table 5–13 ELM Schema Properties

Parameter	Description
database.elmdb.oracle.address	Use this parameter to specify the URL where the ELM database is installed.
database.elmdb.oracle.dbalias	Use this parameter to specify the ELM database alias name.
database.elmdb.oracle dbname	Use this parameter to specify the ELM database name.
database.elmdb.oracle.dbport	Use this parameter to specify the port to connect to the ELM database.
database.elmdb.oracle.auth.elmauth.user	Use this parameter to specify the user name to connect to the ELM database.
database.elmdb.oracle.auth.elmauth.password	Use this parameter to specify the password to connect to the ELM database.
database.elmdb.oracle.elm_main_dblink	Use this parameter to specify the database link name for the ELM schema to access the main database. If they exist in the same instance, specify <i>none</i> .

SAU User for CE to access ELM and CommonDB

database.elmdb.oracle.auth.sauoracleauth.user	Use this parameter to specify the SAU user name to connect to ELM database.
database.elmdb.oracle.auth.sauoracleauth.password	Use this parameter to specify the SAU password to connect to the ELM database.
database.elmdb.oracle.sau_dblink	Use this parameter to specify the SAU database link name for the ELM schema to access the main database. If they exist in the same instance, specify <i>none</i> .
database.elmdb.oracle.create	Use this parameter to indicate that a new ELM database be created. Valid values are Yes or No.
database.elmdb.oracle.upgrade	Use this parameter to indicate that the existing ELM database be upgraded. Valid values are Yes or No.

Place-specific Suite Properties

The Place-specific Suite properties enable you to specify properties that apply across the product suite.

The following table describes the Place-specific Suite properties:

Table 5–14 Place-specific Suite Properties

Parameter	Description
http.protocol	Use this parameter to specify to specify the type of http protocol.
ce.url	Use this parameter to specify the URL where the Calculation Engine is installed.
architecture	Use this parameter to indicate the type of operating system.
product.placefe.install	Use this parameter to indicate the installation of the Place Front End schema.
product.planengine.install	Use this parameter to indicate the installation of the Plan engine.

Cluster Properties

The Cluster properties enable you to set up parameters that apply to installations in a clustered environment.

The following table describes the Cluster properties:

Table 5–15 Cluster Properties

Parameter	Description
Place Application	
scope.fetarget.serverobject	Use this parameter to specify the name of the server or cluster where the Place Front End database is installed.
scope.fetarget.type	Use this parameter to specify the type of the server object. You can specify cluster or server.
Calc Engine	
scope.cetarget.serverobject	Use this parameter to specify the name of the server or cluster where the Calculation Engine is installed.
scope.cetarget.type	Use this parameter to specify the type of the server object. You can specify cluster or server.
JMS Server Name in Cluster	
jms.server	Use this parameter to specify the name of the JMS server (in the cluster) where the Place application is installed.
jms.deployment	Use this parameter to specify the type of deployment. The value defaults to Server . For cluster-based deployment, specify Cluster .
jms.ce.server	Use this parameter to specify the name of the JMS server (in the cluster) where the Calculation Engine is installed.
jms.ce.deployment	Use this parameter to specify the type of deployment. The value defaults to Server . For cluster-based deployment, specify Cluster .
Install Base Replication Host List	
#host.list	<p>This is the list of managed servers, where you want the installer to deploy an instance of Calculation Engine.</p> <p><hostname1,hostname2...>, When installing in a clustered environment across multiple hosts, the install base needs to be replicated on all the hosts involved. (This is not needed if the install base is on network drive shared among the servers).</p>

Table 5–15 Cluster Properties

Parameter	Description
jndi.host	Use this parameter to specify the host name of the JNDI server.
jndi.port	Use this parameter to specify the port to connect to the JNDI server.
integration.jndi.host	Use this parameter to specify the host name of the JNDI server that is used as an external queue.
integration.jndi.port	Use this parameter to specify the port to connect to the JNDI server that is used as an external queue.
jndi.context.factory	Use this parameter to specify the fully qualified JAVA class name of the JNDI context factory used by the application server. For Weblogic, set "weblogic.jndi.WLInitialContextFactory".
jndi.protocol	Use this parameter to set the JNDI protocol. For WebLogic Server, set "t3".

MicroStrategy Properties

The MicroStrategy Properties settings enable you to specify the connection and authentication parameters for MicroStrategy. It also enables you to specify the highest hierarchy level, in your business, for the merchandise and location hierarchy.

Note: When installing or upgrading a co-deployed environment with Plan, you must specify these Microstrategy properties (similar to the properties set for Plan). This ensures that the Microstrategy configuration is retained during the Place installation.

The following table describes the MicroStrategy Properties settings:

Table 5–16 Last Session Properties Files

Parameter	Description
mstr.admin.server	Use this parameter to specify the host name or the IP address of the MicroStrategy administration server. Oracle recommends that the host name be specified in uppercase. For example, HOSTNAME.COMPANYNAME.COM
mstr.server	Use this parameter to specify the host name or the IP address of the MicroStrategy server.
mstr.report.server	Use this parameter to specify the host name or the IP address of the MicroStrategy reports server.
mstr.project	Use this parameter to specify the project source name.
mstr.port	Use this parameter to specify the port number to connect to the MicroStrategy server.
mstr.admin.userid	Use this parameter to specify the administrative user name to connect to the MicroStrategy server.
mstr.admin.password	Use this parameter to specify the administrative password to connect to the MicroStrategy password
merchandise.chain.level.name	Use this parameter to specify the highest chain level in the merchandise hierarchy for your business.
location.chain.level.name	Use this parameter to specify the highest chain level in the location hierarchy for your business.

Table 5–16 Last Session Properties Files

Parameter	Description
mstr.users.max	Use this parameter to specify the maximum number of users that can connect to the MicroStrategy server at a time.
bi.server	Use this parameter to specify the Business Intelligence (BI) server version. Valid values are MS7 or MS8. Plan supports the Microstrategy 8 platform.

Troubleshooting Installation Issues

The Oracle Installer simplifies the process of integrating and configuring multiple applications (for example, your database software, your application server software, and Place).

Because of this complexity and the state of your own environment, there may be some situations that you need to troubleshoot and resolve. This section enables you to understand and resolve Place installation issues.

Ensure that you thoroughly understand the messages being output by the Oracle Installer.

Understanding the Trace Output Messages

Note that the Oracle Installer displays messages that originate from multiple sources. Some messages are Place-specific, such as the directories being created. Other messages are redirected stderr output from third-party applications; as a result, the message content depends on what the software vendor wants to display.

As a result, refer to the documentation associated with the relevant application when troubleshooting, which will help you determine if the error message is even valid and how to correct any existing problems.

For example, during database installation, if error messages indicate class deployments issues, see the documentation associated with your database management software. The documentation will explain whether the message is spurious (and to be ignored) or valid. If the error is actually valid, the documentation will explain how to correct the problem.

Installation Does Not Complete

If the installation process fails before the application has been completely installed, an onscreen message prompts you to review the log files to determine the cause of the errors. However, since the installation was not complete, no log file was generated.

Instead, review the onscreen trace messages to determine the origin of the error.

Installation Completes with Errors

If the installation completes but has errors, an onscreen message prompts you to review the log. Also, you may want to review the generated properties files.

The file naming convention of the log file is as follows:

install-<YYYYMMDD>-154213.log

Installation Aborts Because of Incompatible Components

When upgrading to the Plan Release 12.2 and Place Release 12.2 on a co-deployed environment, in case the installation does not complete because of the incompatible components, you must run the first product upgrade with "-P" argument. For more information, see [Upgrading a Co-deployed Environment](#).

Online Help Does Not Work

The Application Development Framework (ADF) libraries, required for the Online Help, may not be invoked in the WebLogic Server Home directory. For more information, see [Setting Up ADF Libraries](#).

6

Installing Place Over Plan

This chapter describes how you can install the Place application to work along with an existing installation of Plan. It includes the procedures you can use to deploy the Place application in the same WebLogic domain used by Plan.

It includes the following sections:

- [Setting Up the Plan Installation](#)
(applies to upgrades from Plan version 2.6 or earlier)
- [Setting Up the Place Installation](#)
- [Configuring Place](#)
- [Upgrading a Co-deployed Environment](#)
- [Setting Up a Foreign JMS Server on WebLogic Server](#)

You can install the Place application over an existing installation of Plan version 2.6 (or higher) only. Ensure that you install Plan version or upgrade from the existing version to the latest Plan version (2.6 or higher), before installing Place.

Setting Up the Plan Installation

Before you install or upgrade the Plan application, you must edit the AUDIT schema settings in the installation properties file and direct the installer to create a new AUDIT schema.

Important: The setup procedure described in this section applies only to upgrades from Plan version 2.6.0 or earlier.

You no longer need to set the Audit schema settings for the upgrades from Plan 2.6.1 or higher.

To set up the installation properties for the Plan application:

- Edit the `install.properties` file to reflect the following settings in the Oracle Properties (Audit Database) section:

```
database.auditdb.oracle.create=yes
```

```
database.auditdb.oracle.upgrade=no
```

When running an upgrade, specify the following settings for all the other schemas:

```
database.<schema_name>.oracle.create=no
```

```
database.<schema_name>.oracle.upgrade=yes
```

For more information on the installation properties file and the Plan installation procedure, see the chapter [Installing Plan](#).

Setting Up the Place Installation

Before you start installing the Place application, you must edit the installation properties file and direct the installer to create a new Place schema. Since the other schemas are already created during Plan installation, you must direct the installer to upgrade (and not create) the other schemas.

To set up the place schema properties for the Place application:

1. Edit the `install.properties` file to reflect the following settings in the Oracle Properties (Place Schema) section:

```
database.placedb.oracle.create=yes
```

```
database.placedb.oracle.upgrade=no
```

For all other schemas, specify the following:

```
database.<schema_name>.oracle.create=no
```

```
database.<schema_name>.oracle.upgrade=yes
```

2. Run the Oracle Installer to start installing the Place application.

For more information on the installation properties file and the Place installation procedure, see the chapter [Installing Place](#) in the *Place Installation Guide*.

Important: These parameter settings direct the installer to create a new Place database schema. Ensure that you use these settings only when you are installing the Place application over a Plan installation that does not have this database schema installed before.

In case you are installing the Place application over an existing Plan-Place co-deployed environment, since the Place database schema already exists, you must set the value for the `database.placedb.oracle.create` parameter to `no` and the value for the `database.placedb.oracle.upgrade` parameter to `yes`.

Configuring Place

Once the Place application is installed, you must load the user roles and business rules used between Place and Plan. You must also run certain scripts that load seed data for the Place application.

This section includes the following tasks you must perform to load the business rules, user roles, and seed data:

- [Loading Business Rules](#)
- [Loading User Roles](#)
- [Loading Seed Data](#)

Loading Business Rules

Use the Business Rules Management Administration shell script (brmadmin.sh) to load the business rule definitions set up for the Place and Plan applications. The script loads the business rule definitions specified in a rule definitions file.

The rule definitions are set up (based on your business needs) in a common file, and includes the business rules information for both the applications. Ensure that this file is available during the implementation. You can find a sample rules definition file, *ae_rule_definitions.xml*, at the following location:

```
<Place_Installation>\modules\tools\conf\SampleRules
```

For more information on loading the business rules, see the section *Loading Business Rule Definitions* in the *Place Configuration Guide*.

Loading User Roles

Use the User Management Bulk Loader script to load the user roles set up for the Place and Plan applications. The Bulk Loader script loads the user roles specified in a role set file.

The role set and role assignments are set up (based on your business needs) in a common file, and include the user accounts and roles access information for both the applications. Ensure that this file is available during the implementation. You can find a sample user roles set file, *ae_role_set.xml*, at the following location:

```
<Place_Installation>\modules\tools\conf
```

For more information on loading the user roles, see the section *Understanding the User Management Bulk Loader Utility* section in the *Place Configuration Guide*.

Loading Seed Data

For the Place application to work along with the Plan application, you must run certain scripts to load the seed data required by both the applications. These scripts help you load generic and customized data required for your business.

You can find the sample scripts at the following location in the Place installation directory:

```
<Place_Installation>\Datasets\AESample\Data\Seed
```

Before you start the load process, ensure that the custom scripts are set up based on your business needs. You can run the generic scripts, without any modifications, and

load the seed data. For more information on the scripts, see [Reference to the Data Load Scripts](#).

To load the seed data:

1. At the SQL prompt, run the following scripts:

- custom_ir_objects.sql (Custom script)
- pl_dd_attributes.sql (Generic script)
- data_levels_tbl.sql (Custom script)
- dist_centers_tbl.sql (Custom script)

These scripts are common for the Place and Plan applications.

Note: You need not run these scripts for the Plan application, if the application was upgraded to Plan Version 2.6.

2. Run the following scripts for the Place application:

- create_default_users.sql (Generic script)
- merch_admin_setting_types_tbl.sql (Generic script)
- merchandise_admin_settings_tbl.sql (Custom script)
- otr_component_types_tbl.sql (Custom script)
- grid_data_population.sql (Generic script)
- upd_static_grid_data.sql (Generic script)

These scripts load data specific to the Place application.

3. Add the following script to the automation set up for the nightly run:

- pl_load_client_place.sql (Place-specific script)

4. After the first automation process, run the following scripts:

- store_set_data.sql (Generic script)
- store_attribute_names_tbl.sql (Generic script)
- planned_item_types.sql (Generic script)
- media_types.sql (Generic script)
- emphasis_types.sql (Generic script)
- indicator_types.sql (Generic script)
- pricing_types.sql (Generic script)

Note: You need not run these scripts for the Plan application, if the application was upgraded to Plan Version 2.6.

5. Run the Initialization Load process, and then the following script in the Place application:

- a4p_required_data.sql (Place-specific script)

Reference to the Data Load Scripts

The following table describes the scripts (required for the data load), and lists their location in the AESample directory:

Table 6–1 Data Load Scripts for Place and Plan

Script Name	Script Location (Place_Install\Datasets\AESample)	Script Description
<i>Custom Scripts</i>		
custom_ir_objects.sql	AESample\Data\Seed	This SQL script loads the customized inference rules.
data_levels_tbl.sql	AESample\Data\Seed	This SQL script loads the size profile information, based on your business, for the merchandise and location hierarchy.
dist_centers_tbl.sql	AESample\Data\Seed	This SQL script loads the information on the distribution centers.
merchandise_admin_settings_tbl.sql	AESample\Data\Seed\Place	This SQL script loads the customized merchandise administration settings.
otr_component_types_tbl.sql	AESample\Data\Seed\Place	This SQL script loads the customized Open to Receive (OTR) metric values.
<i>Generic Scripts</i>		
a4p_required_data.sql	AESample\Data\Seed\Place	This SQL script loads the essential business data required by the Place application.
create_default_users.sql	AESample\Data\Seed\Place	This SQL script creates the default user required by the Place application.
emphasis_types.sql	AESample\Data\Seed	This SQL script loads the emphasis types.
grid_data_population.sql	AESample\Data\Seed\Place	This SQL script loads the grid and column configurations.
media_types.sql	AESample\Data\Seed	This SQL script loads the information on the type of media used in a promotion.
merch_admin_setting_types_tbl.sql	AESample\Data\Seed\Place	This SQL script loads the merchandise administration setting types.
page_indicator_types.sql	AESample\Data\Seed	This SQL script loads the information on the location, front or back, where the promotion advertisement can be placed.
pl_dd_attributes.sql	AESample\Data\Seed	This SQL script enables the merchandise hierarchy and location hierarchy CDAs (disabled by default.)
pl_load_client_place.sql	AESample\DeployScripts\Place	This SQL script executes various procedures to load the warehouse inventory, daily inventory, OTR feeds, and weekly sales for the Place application.
planned_item_types.sql	AESample\Data\Seed	This SQL script loads the planned item types.
pricing_types.sql	AESample\Data\Seed	This SQL script loads the pricing types.
store_attribute_names_tbl.sql	AESample\Data\Seed	This SQL script loads the store division (Str Div) and subset records in the STORE_ATTRIBUTES_NAMES_TBL table. These records are the initial set of location hierarchy level descriptions (in the Store Set User Interface) essential for the application.
store_set_data.sql	AESample\Data\Seed	This SQL script loads the store set information.
upd_static_grid_data.sql	AESample\Data\Seed\Place	This SQL script loads the Store Division (STR DIV) record in the CT_COLUMNS_TBL table. This table stores the grid and column information in the database.

Upgrading a Co-deployed Environment

When upgrading to the Plan Release 12.2 and Place Release 12.2 on an existing co-deployed environment, the installation may abort because of the incompatible components.

The following example ([Example 6-1](#)) displays an error message that lists the incompatible components (Alert 1.3.1 and Suite 1.5.0).

Example 6-1 Incompatible Components Error

ERROR: The following components are not compatible:

ERROR: Alerts 1.3.1 and Suite 1.5.0

In case the installation aborts because of the incompatible components, use the "-P" argument in the *install.sh* for the first product upgrade. This ensures that the first product upgrade completes successfully (incompatible components get reported as warnings).

When you run the next product Release 12.2 upgrade, the latest compatible versions of the components are retained, and the warnings get resolved. For the second upgrade, you can run the upgrade without the "-P" argument.

For more information on the "-P" argument and the *install.sh* syntax, see [install.sh](#) in the chapter *Installing Place*.

Setting Up a Foreign JMS Server on WebLogic Server

In case you have set up a Plan-Place co-deployed environment over clusters, you must set up the Foreign JMS Server capability in WebLogic so that the stores information is synchronized and accessible through both the applications.

To set up a foreign JMS Server:

1. As an administrator, log on to the Weblogic Server console.
2. Create a JMS connection factory.
3. Once created, target, and deploy the connection factory on the Plan cluster. The JNDI name should be the same as the "connection-factory-jndi-name" value given in the "weblogic-ejb-jar" for the "StoreSetChangeHandler" MDB.

For example,
Name: CommonConnectionFactory
JNDI Name: CommonConnectionFactory

4. Configure a new Foreign JMS Server.
5. Once created, target, and deploy the Foreign JMS server on the Place cluster.

For example,
Name: NotificationJMSServer
JNDI Initial Context Factory: weblogic.jndi.WLInitialContextFactory
JNDI Connection URL: provide plan app URL (eg. t3://dev-app-107:7090) .

6. Create a Foreign JMS connection factory. Mention the local and remote JNDI names as given for *CommonConnectionFactory*.

For example,
Name: RemoteConnectionFactory

```
Local JNDI Name: CommonConnectionFactory  
Remote JNDI Name: CommonConnectionFactory
```

7. Configure a new Foreign JMS Topic and point it to the topic created under the CommonJMSServer deployed on Plan.

For example,
Name: RemoteNotificationTopic
Local JNDI Name: com.profitlogic.notification.topic
Remote JNDI Name: com.profitlogic.notification.topic

Note: The 'com.profitlogic.notification.topic' used above is the JNDI name of NotificationEventTopic under CommonJMSServer.

8. Restart the servers.

Since the Place JMS configuration depends on Plan, and the two servers are started concurrently, the following exception is logged during the start up in the Place logs (see below). The JNDI lookup is retrieved by the Place server after start up and hence the exception can be ignored during the start up.

Note: To avoid the exception, Place servers must be started sequentially after Plan servers during startup.

```
Registering Application: Store set  
com.profitlogic.common.notification.EventException:(1217324969224:0): JNDI lookup  
failure[javax.naming.CommunicationException [Root exception is  
java.net.ConnectException: t3://dev-app-107:7090: Destination unreachable; nested  
exception is:  
java.net.ConnectException: Connection refused; No available router to  
destination]]  
<..... More exceptions>
```


A

Files and Directory Structure

This appendix provides a reference to the directory structure of a typical Place installation. It includes information on the locations of the various enterprise archive (EAR) modules that get deployed over the WebLogic server.

This appendix includes the following sections:

- [Application Directory Structure](#)
- [Modules Deployed On WebLogic Server](#)

Application Directory Structure

The following table lists the directory structure of a typical Place installation:

Note: The folders and sub folders listed in this table are sorted alphabetically.

Table A-1 Application Directory Structure

First Level	Second Level	Third Level	Fourth Level	Description
<Place_Installation>				<i>The Place Installation Base folder.</i>
-----	config			
-----	adf			
-----	allocating4p			
-----	buslogicadvice			
-----	grids			
-----	resources			
-----	businessrulemgr			
-----	grids			
-----	help			
-----	resources			
-----	buslogicadvice			

Table A-1 Application Directory Structure

First Level	Second Level	Third Level	Fourth Level	Description	
<Place_Installation>				The Place Installation Base folder.	
-----	integration			Contains the configuration files for the Integration module. This includes the integration.properties file.	
-----	testharness				
-----	translators				
-----	xsd				
-----	xsdvalidator				
-----	SIT			Contains the configuration files for the System Information Tool (SIT) module.	
-----	storesets			Contains the grid XML files, resource bundles, and configuration properties files for the Store Sets Management module.	
-----	grids				
-----	help				
-----	resources				
-----	suite			Contains the configuration files for the Suite. This includes the suite.properties file.	
-----	resources				
-----	usermanagement			Contains the grid XML files, resource bundles, and configuration properties files for the User Management module.	
-----	grids				
-----	help				
-----	resources				
-----	xintestharness			Contains the configuration files for the External Integration Test Harness module.	
-----	InstallScripts			Contains script (.sh) files that help the setup and deployment of the application over an application server.	
-----	util				
-----	oracle				
-----	weblogic				
-----	websphere				
-----	logs			The logs folder for the modules deployed as part of the application. This folder contains the log files that include the tracing information.	
-----	businessrulemgr				
-----	buslogicadvice				
-----	install				
-----	place				
-----	storesets				
-----	usermanagement				
-----	modules				
-----	ADF			Contains the ADF libraries files that are required for the Online Help to work.	
-----	jlib				
-----	lib				

Table A-1 Application Directory Structure

First Level	Second Level	Third Level	Fourth Level	Description
<Place_Installation>				The Place Installation Base folder.
-----	Database			Contains the scripts that help set up the application database.
-----	Datasets			Contains the scripts and control files that help set up a sample (AESample) dataset.
-----		AESample		
-----		ControlFiles		
-----	Install			Contains the Place installer files and the install scripts that help install the Place components.
-----		install		
-----		InstallScripts		
-----	Integration			Contains the enterprise archive file for the Integration module (<i>integration.ear</i>).
-----	Place			Contains the enterprise archive files for the Place application (<i>place.ear</i>) and Online Help (<i>placehelp.ear</i>).
-----	SIT			Contains the enterprise archive files for the System Information Tool (<i>sit.ear</i>) module.
-----	StoreSets			Contains the enterprise archive files for the Store Sets Management module (<i>store.ear</i>) and Online Help (<i>ssmhelp.ear</i>).
-----	Suite			Contains the enterprise archive files for the following modules:
		<ul style="list-style-type: none"> ■ Business Rule Management Online Help (<i>brmhelp.ear</i>) ■ User Management Online Help (<i>umhelp.ear</i>) ■ Business Rule Management Module (<i>businessrulemgr.ear</i>) ■ Common Framework (<i>common4p.ear</i>) ■ Suite Properties (<i>suiteproperties.ear</i>) ■ User Management Module (<i>usermanagement.ear</i>) 		
-----	tools			Contains the configuration and libraries files you can use to set up and load business rules and user roles for the Place application.
-----		bin		The following files are used to communicate with the external systems for ASNs, Accept/Reject messages for allocation and ACK/NACK messages:
-----		conf		
-----		lib		
		<ul style="list-style-type: none"> ■ fileadaptor.jar (in the tools/lib/ folder) ■ process_inbound .sh (in the tools/bin/ folder) ■ process_outbound.sh (in the tools/bin/ folder) 		
-----	spool			The spool directory for the Place application.
-----	inbound			
-----	input			
-----	output			
-----	temp			The temporary folder for the Place application.

Note: Since the Online Help modules perform direct file system I/O through the application context, the Online Help EAR modules are deployed in an *exploded* format.

Modules Deployed On WebLogic Server

The following table lists the application modules EARs deployed on the WebLogic server:

Table A–2 Modules Deployed on WebLogic Server

Module Name	Description	EAR File Name and Location
allocating4p	Place application	/modules/Place/allocating4p.ear
BRMHelp	Business Rule Management Online Help	/modules/Suite/brmhelp.ear
BusinessRuleMgr	Business Rule Management Module	/modules/Suite/businessrulemgr.ear
c4p	Common Framework Module	/modules/Suite/common4p.ear
integration	Integration Module	/modules/Integration/integration.ear
placehelp	Place Online Help	/modules/Place/placehelp.ear
StoreSets	Store Sets Management Module	/modules/StoreSets/store.ear
StoreSetsHelp	Store Sets Management Online Help	/modules/StoreSets/ssmhelp.ear
SuitePropertiesManager	Suite Properties Manager Module	/modules/Suite/suiteproperties.ear
SystemInformationTool	System Information Tool Module	/modules/SIT/sit.ear
UMHelp	User Management Online Help	/modules/Suite/umhelp.ear
UserManagement	User Management Module	/modules/Suite/usermanagement.ear

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